

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Applicant: A-1 Septic and Drain Service
David L. McCarter
5011 Reno Highway
Fallon, Nevada 89407-2603

Permit: NEV2002504

Location: 12830 Carson Highway
Fallon, Churchill County, Nevada 89406
Latitude: 39° 30' 14" N
Longitude: 118° 59' 33" W
Township 19 N, Range 27 E, Sections 18 and 19 MDB&M

General: The Applicant proposes to land apply domestic septage to 40 acres of nutrient deficient agricultural land at the 110-acre Tom Wiley Farm west of Fallon, Churchill County, Nevada. The Applicant, as David L. McCarter dba A-1 Septic Tank Service, was authorized to apply domestic septage and grease trap material at this site from November 7, 2001 through May 6, 2002, under temporary permit TNEV2001389. The site is owned by Thomas A. and Meridee R. Wiley and is flood irrigated. The 40 acres are divided into 7 checks, ranging in size from 4.2 to 6.6 acres. The septage must be screened to remove solids over ¾-inch in size before the septage can be land applied. The septage must be incorporated into the soil within 6 hours of being land applied. A crop must be planted to uptake the nitrogen that is contained in the septage. The application rate of domestic septage will be based on the nitrogen needs of the crop planted. Sudan grass was planted in the first check to comply with TNEV2001389; rye is planned to be planted in subsequent checks.

The Applicant has installed a 3,000-gallon, steel, underground storage tank at the land application site to store the domestic septage during inclement weather and when the incorporation equipment is not operational. A synthetic liner is required to provide secondary containment. The domestic septage will be screened upon entering the tank. The tank opening must be covered.

Receiving Water Characteristics: The groundwater is reported to be at a depth of 15 to 20 feet below ground surface and is reported to be of good quality with the following concentrations: total dissolved solids 492 mg/L, nitrate 0.1 mg/L, chloride 19 mg/L, and a pH of 8.07 SU. Based on a single analysis, the shallow groundwater meets all drinking water standards, except the secondary standard for manganese.

Groundwater monitoring is not required for domestic septage land application sites.

Characteristics: Only domestic septage may be land applied. No industrial waste or grease trap material may be land applied.

Flow: The application rate, in gallons of septage per acre per year, shall be based on the nitrogen needs of the crop to be grown. If the crop is rye, as proposed, with an annual nitrogen demand of 130 pounds per acre, domestic septage may be applied at a maximum rate of 50,000 gallons per acre per year. The Permittee has estimated a 30-day average flow of 500 gallons per day (gpd) and a maximum flow of 1,175 gpd in the permit application. Permits for the land application of domestic septage do not include flow limitations.

Proposed Septage Use Requirements:

-Septage use must meet all of the requirements of 40CFR section 503, Standards for the Use or Disposal of Sewage Sludge.

-Domestic septage shall not be applied to land within 100 feet of any public roadway or within 600 feet of any residence.

-Domestic septage shall not be applied within 200 feet of a drinking water well not defined as a public water system.

- Domestic septage shall not be applied within 1,000 feet of a public water system well.
- All land application sites shall be fenced and posted with warning signs stating "DOMESTIC SEPTAGE APPLIED HERE NO TRESSPASSING".
- Equipment to incorporate the domestic septage into the soil shall be on the site and in operating condition before septage is land applied.
- Food crops shall not be grown on land that has had domestic septage applied within the past five (5) years.
- The domestic septage shall be land applied at a uniform rate by means of a spray bar, splash plate, or similar method approved by the Division.
- The domestic septage shall be screened through a $\frac{3}{4}$ -inch or finer screen to remove solids from the septage prior to land application. Solid material removed from the septage shall be disposed of in an approved landfill.

Schedule of Compliance: The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance. The Permittee shall implement and/or execute the following scheduled compliance requirements:

- a. Upon the effective date of this permit, the Permittee shall achieve compliance with the reuse limitations.
- b. The Permittee shall submit reports illustrating compliance or noncompliance with specified compliance dates within 14 days of any respective, scheduled compliance date.
- c. Within ninety (90) days of the permit effective date, the Permittee shall submit an Operations and Maintenance (O&M) Manual covering the use of the domestic septage to the Division for review and approval.
- d. By May 20, 2003, the Permittee shall submit to the Division a fully executed agreement between the Permittee and the landowner authorizing the continued land application of domestic septage on the 40-acre portion of the Wiley Farm.

The agreement must be for a minimum of one (1) year. If the agreement is for less than the remaining four (4) year term of the permit, the Permittee shall submit to the Division subsequent agreement(s) at least thirty (30) days prior to the expiration of the current agreement to ensure continuous authorization to operate.
- e. Thirty (30) days prior to the proposed use of the 3,000-gallon storage tank, the Permittee shall submit to the Division an as-built drawing of the secondary tank containment and a narrative describing the construction. The containment must be constructed to an elevation above the maximum elevation of the flood irrigation water.

Rationale for Permit Requirements: Permit requirements are necessary to protect the public health and prevent the land application site from becoming a public nuisance and a source of groundwater pollution.

Proposed Determination: The Division has made the tentative determination to issue the proposed permit for a five (5) year period.

Procedures for Public Comment: The Notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Lahontan Valley News** for publication. The notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of publication of the public notice in the newspaper. The date and time by which all written comment must be postmarked or transmitted to the Division via facsimile or e-mail is 5:00 P.M. September 6, 2002. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Prepared by: Bruce Holmgren
July 2002